

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/002450

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04B10/155

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04B H04L G02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, COMPENDEX, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/049333 A (GRIFFIN ROBERT ; BOOKHAM TECHNOLOGY PLC (GB)) 12 June 2003 (2003-06-12) abstract page 3, lines 28-31 page 4, line 21 - page 5, line 15 page 6, lines 8-12 page 7, lines 6-12; figure 1	1-15
X	US 5 249 243 A (SKEIE HALVOR) 28 September 1993 (1993-09-28) abstract column 4, lines 8-28 column 8, line 30 - column 10, line 9 figures 1,3	1,9,10, 14,15

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

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- *&* document member of the same patent family

Date of the actual completion of the International search	Date of mailing of the International search report
15 October 2004	26/10/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel: (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Muñoz Sanchez, J-M

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C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/005975 A1 (NAKAMOTO HIROSHI) 17 January 2002 (2002-01-17) abstract paragraphs '0001!, '0100! - '0108! figure 11	1, 9, 10, 14, 15
A	EP 0 752 607 A (NEDERLAND PTT) 8 January 1997 (1997-01-08) abstract column 4, lines 5-48 figures 1-3	1-15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/002450

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
WO 03049333	A 12-06-2003	GB WO	2383706 A 03049333 A1	02-07-2003 12-06-2003
US 5249243	A 28-09-1993	AU AU CA EP FI JP MX NO WO	676835 B2 4112493 A 2136229 A1 0641458 A1 945398 A 8500191 T 9302939 A1 944394 A 9323789 A1	27-03-1997 13-12-1993 25-11-1993 08-03-1995 16-11-1994 09-01-1996 31-01-1995 20-01-1995 25-11-1993
US 2002005975	A1 17-01-2002	JP FR GB GB GB	2002023124 A 2811776 A1 2364790 A 2397388 A 2397389 A	23-01-2002 18-01-2002 06-02-2002 21-07-2004 21-07-2004
EP 0752607	A 08-01-1997	NL EP JP JP NL US	1003198 C2 0752607 A1 2844525 B2 9105894 A 1003198 A1 5708734 A	25-11-1997 08-01-1997 06-01-1999 22-04-1997 08-01-1997 13-01-1998